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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

basic imagery interpretation report

Xian Airframe Plant Yanliang 172 (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

CHINA

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SEPTEMPEN 1980
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picted in Figure 2.

tion (item 11b) extend the full length of this struc-

Table 1.
Xian Airframe Plant Yanliang 172, China
Keyed to Figure 1
This table in its entirety is classified SECRET/WNINTEL

Item	Dimensions				Date	Date	-
	Description/Function	(m)		Floorspace	First	Observed	Remarks
		L	W	(sq m)	Observed	Complete	
1	Support bldg				Sep 79		Ucon
2	Support bldg				Sep 79	_	Ucon
3	Storage shed				_	May 77	L-shaped
4	Storage sheds (2)					May 77	
5	Storage shed				**********	May 77	L-shaped
6	Shop bldg						Ucon
a	Shop bay				Mar 79		
b	Engr sec				Mar 79		
7	Storage bldg					May 77	
8	Shop bldg					•	Ucon
a	Shop bay				Mar 79		
b	Engr sec				Mar 79		
С	Engr sec				Mar 79		
9	Support bldg				Jul 79	Jan 80	
10	Prob support bldg				Jul 79		Ucon
11	Shop bldg						Ucon
a	Shop sec				Mar 79	_	3 bays
b	Prob engr sec				Mar 79		•
12	Shop bldg						Ucon
a	Shop bay				Mar 79	_	
b	Engr sec				Mar 79		
c	Engr sec				Mar 79		
13	Flight line support bldg				Aug 79		Ucon
14	Storage bldg				Jan 79	Jan 80	
15	Storage bldg				Sep 79	Jan 80	
16	Laboratory bldg				Mar 79	Jan 80	
17	Storage bldg				-	Jan 79	
18	Laboratory bldg				Mar 79	Jan 80	
19	Laboratory bldg				Mar 79	Jan 80	
20	Laboratory bldg				Mar 79	Aug 80	
21	Support bldg addition				Jul 79	May 80	
22	Bldg foundation				Sep 79	_	
23	Poss support bldg				Sep 79		Ucon

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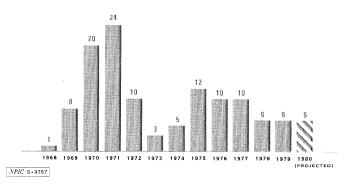


FIGURE 2. BADGER PRODUCTION AT XIAN AIRFRAME PLANT 172

Aircraft Testing

- 9. (S/D) The Xian Airframe Plant flight test center is the primary facility for flight and systems performance testing of all major aircraft in the Chinese air forces. At least one of most types of aircraft in the Chinese inventory is usually parked adjacent to the flight test center. These aircraft may be used to simulate conditions or isolate problems encountered on aircraft at operational airfields.
- 10. (S/D) The most significant flight test program at the Xian flight test center has been in the acceptance testing of the indigenously designed Hsian A. The Hsian A is similar in size and appearance to the Soviet Mikoyan-designed, delta-wing FLIPPER and is assessed to be a single-seat, twin-jet, high-performance interceptor (Figures 3 and 4).



12. (S/D) On several occasions, a Hsian A with external fuel tanks mounted outboard of the wing fences and pylons/stores positioned inboard of the fences has been observed at the Xian flight test center.

Aircraft Modification

- 13. (S/D) Several aircraft at the Xian flight test center, including a BADGER, a BEAGLE, several BULLs, and possibly a CUB, have been modified from their standard configurations.
- 14. (S/D) On ______a BAD-GER with a turbojet/turbofan engine pod under each wing was observed. The engine pods were

- mounted on a forward-inclined pylon approximately from the fuselage. The pods extend approximately beyond the leading edge of the wing and are approximately in diameter (Figure 5). Burn marks have been observed on the ground behind both engines, and access panels on the engines have been observed open. The BADGER was in the same position until May 1980. On imagery of the aircraft was observed on the run-up appron at the south end of the runway. This BADGER was probably being utilized as a test bed for engine evaluation.
- 15. (S/D) A BEAGLE, modified for an unidentifiable mission, was first observed on the parking ramp adjacent to the flight test center on The aircraft had an elongated, blister-like fairing atop the fuselage, directly aft of the cockpit, and a bulbous aft fuselage extension long (Figure 6). The extension was in diameter at its juncture with the main fuselage and in diameter near its terminal point. The aircraft is usually parked on the main ramp at the airfield. This BEAGLE or one configured similarly has occasionally been seen at the Shuangchengzi Airfield
- 16. (S/D) The observation of two BULLs with conventional reciprocating engines outside the final assembly hall on imagery of [Figure 7] suggests that Xian Airframe Plant may have been the facility utilized in retrofitting
- [Figure 7) suggests that Xian Airframe Plant may have been the facility utilized in retrolitting BULL aircraft with turboprop engines. During the mid-1970s, the Chinese upgraded the underpowered BULL with the more powerful turboprop engines. The Chinese received 13 BULLs from the Soviets in the late 1950s. The aircraft are usually based at Wugong Airfield
- 17. (TSR) On a BADGER was parked on the ramp at the entrance to the hangar at the flight test center, and a naval surface-to-surface missile (CSSN-1) shipping container was near the right wing (Figure 8). There were no indications of pylons on the aircraft; however, it is possible that the Chinese may have been experimenting with a CSSN-1 missile and the BADGER.

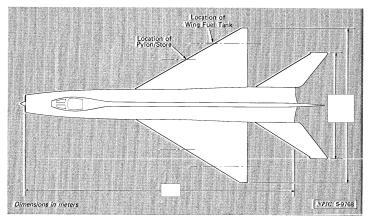
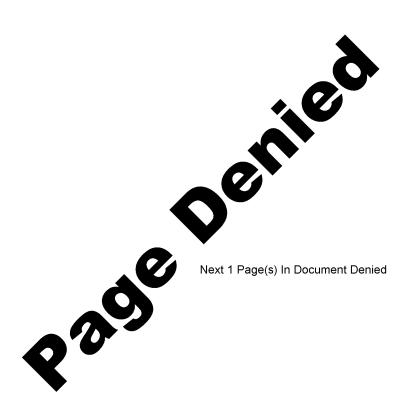


FIGURE 3 TIME DRAWING DE HOIAN A

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18. (TSR) On ________ a CUB with canvas covering the cockpit and nose section was parked in front of a revetment at the airfield (Figure 9). The overall fuselage was _______ longer than that of the standard CUB. This discrepancy in the length of the fuselage forward of the leading edge of the wing may be due to the placement of the canvas over the nose section.

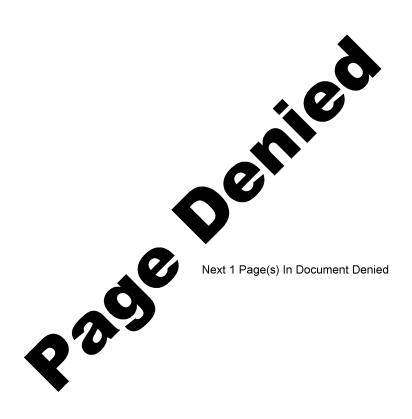
Test Facilities

- 19. (S/D) The Xian flight test center is equipped with several outdoor test facilities for the evaluation of aircraft structural strength and systems performance capabilities. These include a drop test rig, a moment-of-inertia test rig, an ejection seat test rig, and an aircraft test apron.
- 20. (S/D) The drop test rig (Figure 10), which is probably used in testing fuselage and landing gear structural stress limitations, has been in place since 1965. A FARMER aircraft was ob-

served under the rig on several occasions from early 1966 to January 1970.

- 21. (S/D) The moment-of-inertia test rig (Figure 11), sometimes called a tether rig, was completed in August 1972. A FARMER has been observed under the rig on all interpretable coverage acquired since early 1977.
- 22. (S/D) The ejection seat test rig and its accompanying support building (Figure 12) were present when the flight test center was first observed in September 1964. A parachute test tower is also in the area.
- 23. (S/D) The aircraft test apron was completed in February 1967 and consists of a concrete apron and a monitor/test-support building (Figure 13). The apron contains a pit, an inclined ramp on either side of the pit, and an exhaust deflector. This facility is used in conjuction with mobile wind or moisture generators and may be utilized to simulate various atmospheric conditions on aircraft and aircraft engines.

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REFERENCES **IMAGERY** (S/D) All applicable satellite imagery acquired from preparation of this report. was used in the 25X1 MAPS OR CHARTS SAC. US Air Target Chart, Series 200, Sheet 0385-6, scale 1:200,000 (UNCLASSIFIED) **DOCUMENTS** 25X1 25X1 IAR-0090/79, Hsian A Development 1970-1979 (TSR), Nov 79 (TOP SECRET *Extracted material is classified TOP SECRET 25X1 COMIREX J02 Project 200034DJ (S/D) Comments and queries regarding this report are welcome. They may be directed to Forces Division, Imagery Exploitation Group, NPIC,

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